

Appendix A

Water Quality Testing Requirements for Source Approval

All testing must be done in accordance with 310 CMR 22.00 (Massachusetts Drinking Water Regulations). Among these requirements are the use of a laboratory certified in the specific analyte, using approved methodology and reporting on MA Department forms (pursuant to 310 CMR 22.11A) as well as meeting all applicable method detection limits.

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|---|-------------|---------|----------|--------|--------|-------------|-----------|---------|---------|----------|----------|--------|---------|---------|----------|----------|------|--|---|
| <p>1. <i>Coliform Bacteria</i></p> <p>2. <i>Inorganic Compounds</i></p> <table border="0"><tr><td>Arsenic</td><td>Mercury</td></tr><tr><td>Antimony</td><td>Nickel</td></tr><tr><td>Barium</td><td>Nitrate (N)</td></tr><tr><td>Beryllium</td><td>Nitrite</td></tr><tr><td>Cadmium</td><td>Selenium</td></tr><tr><td>Chromium</td><td>Sodium</td></tr><tr><td>Cyanide</td><td>Sulfate</td></tr><tr><td>Fluoride</td><td>Thallium</td></tr><tr><td>Lead</td><td></td></tr></table> <p>3. <i>Synthetic Organic Compounds (SOCs)</i></p> <p>All regulated and unregulated SOCs per 310 CMR 22.07A(1) and 22.07C(7) excluding:</p> <ul style="list-style-type: none">DiquatEndothallGlyphosate2,3,7,8 -TCDD (Dioxin) <p>Surface water sources do not have to test for EDB and DBCP.</p> <p>4. <i>Volatile Organic Compounds (VOCs)</i></p> <p>All VOCs as per 22.07B(1), 22.07C(5)</p> | Arsenic | Mercury | Antimony | Nickel | Barium | Nitrate (N) | Beryllium | Nitrite | Cadmium | Selenium | Chromium | Sodium | Cyanide | Sulfate | Fluoride | Thallium | Lead | | <p>5. <i>Radionuclides</i></p> <p>Gross alpha activity
Radium-226 & 228
Beta particle activity
Photon activity*
Tritium*
Strontium-90*
Radon
Uranium**</p> <p>6. <i>Secondary Contaminants</i></p> <p>TDS
Color
Odor
PH
Alkalinity-Total (CaCO₃)
Hardness (CaCO₃)
Calcium (Ca)
Manganese (Mn)
Potassium (K)
Iron (Fe)
Magnesium (Mg)
Sulfate (SO₄)
Chloride (Cl)
Silver (Ag)
Turbidity
Aluminum (Al)
Zinc (Zn)
Copper (Cu)</p> <p>7. <i>Other</i></p> <p>Carbon dioxide
Nitrogen (Ammonia)
Specific conductance
Temperature</p> |
| Arsenic | Mercury | | | | | | | | | | | | | | | | | | |
| Antimony | Nickel | | | | | | | | | | | | | | | | | | |
| Barium | Nitrate (N) | | | | | | | | | | | | | | | | | | |
| Beryllium | Nitrite | | | | | | | | | | | | | | | | | | |
| Cadmium | Selenium | | | | | | | | | | | | | | | | | | |
| Chromium | Sodium | | | | | | | | | | | | | | | | | | |
| Cyanide | Sulfate | | | | | | | | | | | | | | | | | | |
| Fluoride | Thallium | | | | | | | | | | | | | | | | | | |
| Lead | | | | | | | | | | | | | | | | | | | |

* Testing for these parameter is only required if the gross beta particle activity is equal to or greater than 50 pCi/L.

** Testing for this parameter is only required if the gross alpha activity is greater than 15 pCi/L.